

What is claimed is

1. An illuminating device for a display comprising:  
a display panel;

a light guide having a light reflection surface, a light  
5 discharge surface opposite to the light reflection surface,  
a front side surface, and a rear side surface, and disposed  
under the display panel so that the light discharge surface  
opposes to the display panel;

a light source provided to oppose to the front side  
10 surface of the light guide;

a plurality of triangular grooves formed in the light  
reflection surface,

each of the triangular grooves comprising a front side  
having a first angle of inclination and a rear side having  
15 a second angle of inclination which is smaller than the first  
angle; and

a diffusion and reflection plate disposed to oppose  
to the rear side surface of the light guide.

2. The device according to claim 1 further  
20 comprising a reflection plate disposed to oppose to the light  
reflection surface.

3. The device according to claim 1 wherein the  
second angle of inclination is about 45 degrees.

4. The device according to claim 1 wherein each of  
25 the grooves extends in a right angle direction with a central  
beam from the light source.

5. The device according to claim 1 wherein the  
grooves are formed same depth.

6. The device according to claim 4 wherein the grooves are arranged at a same distance.

09700540-021204